

**Notice of Allowability**

Application No.

09/881,919

Examiner

Haresh Patel

Applicant(s)

BODIN ET AL.

Art Unit

2154

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/2/2005.
2. ☒ The allowed claim(s) is/are 1-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 8/10/06.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### **EXAMINER'S AMENDMENT**

1. Claims 1-27 are presented for examination.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Mr. John Biggers on August 16, 2006.

### ***Amendments to the Claims***

4. Please amend claims 1, 7, 10, 16, 19 and 25 as below.

Claim 1: (Currently Amended) A method of macro control of streaming digital content, the method implemented in conjunction with a networked system of computers including a content server through which the digital content is transcoded into streams of multimedia data, the streams communicated via network to client devices, the digital content selected for inclusion in streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in athe remote director instruction a computer program that is executed when the URL is invoked, the method comprising the steps of:

recording in non-volatile, machine-readable storage, the digital content.

storing in computer memory macros, each of the macros comprising a URL and a first time, the URL being a hyperlinked URL component of a remote director instruction, the first time being the time when the URL was first invoked through a hyperlink as part of a remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

reading from computer memory the macros in the order in which the macros were stored;

invoking each of the URLs of each of the macros as a hyperlink at a second time, the second time being dependent upon the first time, invoking each of the URLs further comprising formulating and issuing a remote director instruction; and

retrieving from the non-volatile, machine-readable storage, transcoding, selecting for inclusion in output streams, and communicating to client devices, in dependence upon the remote director instructions, the digital content.

Claim 7: (Currently Amended) A method of macro control of streaming digital content, the method implemented in conjunction with a system that provides streaming the digital content from a multiplicity of sources of digital content to a multiplicity of client devices, the system including a content server through which the digital content is transcoded into output streams, the output streams communicated via network to client devices, the digital content selected for inclusion in output streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in an instruction a computer program that is executed when the URL is invoked, the method comprising the steps of:

establishing a first start time for an event, the event comprising a multiplicity of sources of digital content, the event having a duration;

recording in non-volatile, machine-readable storage, the digital content.

storing in computer memory, during the duration of the event, macros, each of the macros comprising a URL and a first elapsed time, the URL being a hyperlinked URL component of a remote director instruction, the first elapsed time being the elapsed time after the first start time when the URL was first invoked through a hyperlink as part of ~~a~~the remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

establishing a second start time for retransmitting the event;

reading from computer memory the macros in the order in which the macros were stored;

invoking each of the URLs of each of the macros as a hyperlink at a second elapsed time after the second start time, the second elapsed time being approximately equal to the first elapsed time of the macro, invoking each of the URLs further comprising issuing a remote director instruction; and

retrieving from the non-volatile, machine-readable storage, transcoding, selecting for inclusion in output streams, and communicating to client devices, in dependence upon remote director instructions, the digital content;

whereby ~~is effected~~ a retransmission of an event is effected.

Claim 10: (Currently Amended) A system for macro control of streaming digital content, the system implemented in conjunction with a computer network including a content server through which the digital content is transcoded into streams of multimedia data, the streams communicated via network to client devices, the digital content selected for inclusion in

Art Unit: 2154

streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in a remote director instruction a computer program that is executed when the URL is invoked, the system comprising:

means for recording in non-volatile, machine-readable storage, the digital content.

means for storing in computer memory macros, each of the macros comprising a URL and a first time, the URL being a hyperlinked URL component of a remote director instruction, the first time being the time when the URL was first invoked through a hyperlink as part of a remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

means for reading from computer memory the macros in the order in which the macros were stored;

means for invoking each of the URLs of each of the macros as a hyperlink at a second time, the second time being dependent upon the first time, means for invoking each of the URLs further comprising means for formulating and means for issuing a remote director instruction; and

means for retrieving from the non-volatile, machine-readable storage, means for transcoding, means for selecting for inclusion in output streams, and means for communicating to client devices, in dependence upon the remote director instructions, the digital content.

Claim 16: (Currently Amended) A system for macro control of streaming digital content, the system implemented in conjunction with a content server that provides streaming the digital content from a multiplicity of sources of digital content to a multiplicity of client devices, the digital content transcoded into output streams, the output streams communicated via network

Art Unit: 2154

to client devices, the digital content selected for inclusion in output streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in an instruction a computer program that is executed when the URL is invoked, the system comprising:

means for establishing a first start time for an event, the event comprising a multiplicity of sources of digital content, the event having a duration;

means for recording in non-volatile, machine-readable storage, the digital content;

means for storing in computer memory, during the duration of the event, macros, each of the macros comprising a URL and a first elapsed time, the URL being a hyperlinked URL component of a remote director instruction, the first elapsed time being the elapsed time after the first start time when the URL was first invoked through a hyperlink as part of a the remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

means for establishing a second start time for retransmitting the event;

means for reading from computer memory the macros in the order in which the macros were stored;

means for invoking each of the URLs of each of the macros as a hyperlink at a second elapsed time after the second start time, the second elapsed time being approximately equal to the first elapsed time of the macro, means for invoking each of the URLs further comprising means for issuing a remote director instruction; and

Art Unit: 2154

means for retrieving from the non-volatile, machine-readable storage, means for transcoding, means for selecting for inclusion in output streams, and means for communicating to client devices, in dependence upon remote director instructions, the digital content;

whereby a retransmission of an event is effected.

Claim 19: (Currently Amended) A computer program product for macro control of streaming digital content, the computer program product implemented in conjunction with a computer network including a content server through which the digital content is transcoded into streams of multimedia data, the streams communicated via network to client devices, the digital content selected for inclusion in streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in athe remote director instruction a computer program that is executed when the URL is invoked, the computer program product comprising:

a recording medium;

means, recorded upon the recording medium, for recording in non-volatile, machine-readable storage, the digital content.

means, recorded upon the recording medium, for storing in computer memory macros, each of the macros comprising a URL and a first time, the URL being a hyperlinked URL component of a remote director instruction, the first time being the time when the URL was first invoked through a hyperlink as part of athe remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

means, recorded upon the recording medium, for reading from computer memory the macros in the order in which the macros were stored;

means, recorded upon the recording medium, for invoking each of the URLs of each of the macros as a hyperlink at a second time, the second time being dependent upon the first time, means for invoking each of the URLs further comprising means for formulating and means for issuing a remote director instruction; and

means, recorded upon the recording medium, for retrieving from the non-volatile, machine-readable storage, means for transcoding, means for selecting for inclusion in output streams, and means for communicating to client devices, in dependence upon the remote director instructions, the digital content.

Claim 25: (Currently Amended) A computer program product for macro control of streaming digital content, the computer program product implemented in conjunction with a content server that provides streaming the digital content from a multiplicity of sources of digital content to a multiplicity of client devices, the digital content transcoded into output streams, the output streams communicated via network to client devices, the digital content selected for inclusion in output streams in dependence upon remote director instructions, the remote director instructions comprising hyperlinked URLs invoked through a network-capable device, the remote director instructions further comprising for each of the URLs in an instruction a computer program that is executed when the URL is invoked, the computer program product comprising:

means, recorded upon the recording medium, for establishing a first start time for an event, the event comprising a multiplicity of sources of digital content, the event having a duration;

means, recorded upon the recording medium, for recording in non-volatile, machine-readable storage, the digital content;



Art Unit: 2154

means, recorded upon the recording medium, for storing in computer memory, during the duration of the event, macros, each of the macros comprising a URL and a first elapsed time, the URL being a hyperlinked URL component of a remote director instruction, the first elapsed time being the elapsed time after the first start time when the URL was first invoked through a hyperlink as part of a remote director instruction for control of streaming digital content, the macros being stored in the order in which the URLs are first invoked through hyperlinks;

means, recorded upon the recording medium, for establishing a second start time for retransmitting the event;

means, recorded upon the recording medium, for reading from computer memory the macros in the order in which the macros were stored;

means, recorded upon the recording medium, for invoking each of the URLs of each of the macros as a hyperlink at a second elapsed time after the second start time, the second elapsed time being approximately equal to the first elapsed time of the macro, means for invoking each of the URLs further comprising means for issuing a remote director instruction; and

means, recorded upon the recording medium, for retrieving from the non-volatile, machine-readable storage, means for transcoding, means for selecting for inclusion in output streams, and means for communicating to client devices, in dependence upon remote director instructions, the digital content;

whereby a retransmission of an event is effected.

***Allowable Subject Matter***

Art Unit: 2154

5. Claims 1-27 are allowed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haresh Patel whose telephone number is (571) 272-3973. The examiner can normally be reached on Monday, Tuesday, Thursday and Friday from 10:00 am to 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Haresh Patel

August 16, 2006

  
JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100